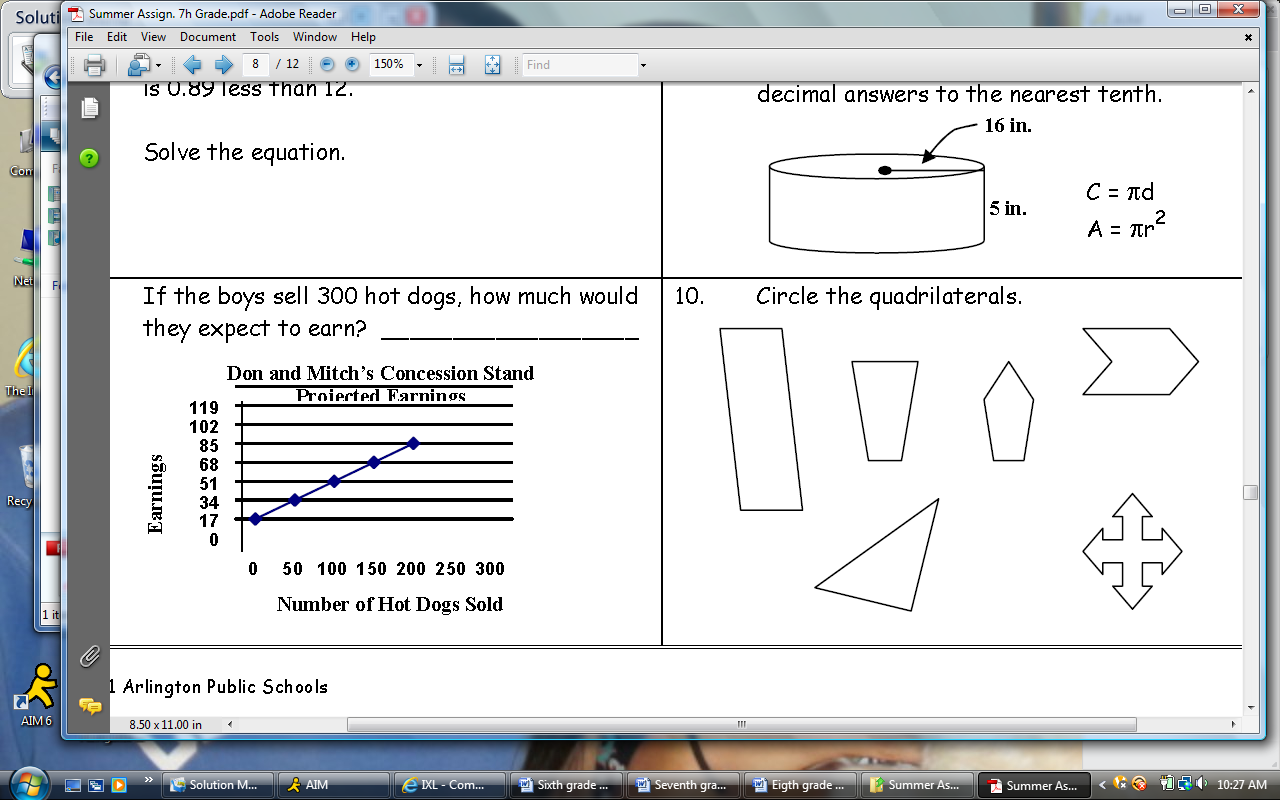
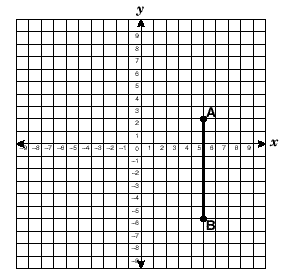
**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Honors Algebra I**

**The following problems are due Monday, October 20th. You may use any resource to solve these problems except if that resource is a person. You have been previously taught these standards. On Thursday of this week I will set aside 5 minutes to help you with any questions you may have in solving these problems. YOU MUST SHOW ALL WORK!**

1.) Pete and Billy have their own concession stand. If they sell 300 hot dogs, how much would they expect to earn?

2.) A triangle can be formed using points A and B on the grid and another point, C, that is not shown.

If angle ABC is a right angle, which coordinate pair identifies point C so that the triangle formed by A, B, and C is a right isosceles triangle?

3.) A science textbook has scale drawings of several very small insects. The scale shows that 1 centimeter in the drawing represents 2 millimeters of actual length. What is the length of the scale drawing of a flea if the flea is actually 5 millimeters long?

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| 4.) Connor is watching a thunderstorm. He knows that the number of seconds between the lightning flash and the thunder, divided by 5, equals his distance from the lightning in miles. If he counts 8 seconds between the lightning and the thunder, how far away is the lightning? |

5.) Amanda put $460 into a simple interest-bearing savings account. After 1 year there was $488.75 in the account. If she made no deposits or withdrawals during that year, what was the interest rate Amanda received on her account?

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| 6.) Galileo was the first person on record to notice that Jupiter had moons. Looking through a telescope in 1610, he saw the 4 brightest moons, later named Callisto, Europa, Ganymede, and Io. The table shows the average distance of each of these moons from Jupiter in kilometers. 1 kilometer is about  of a mile. Approximately what is the distance of each of Jupiter’s moons from Jupiter in miles? |
| http://www.tea.state.tx.us/student.assessment/resources/online/exit99/math/p24no2.gif |
|  |
| 7.) Danny has some cubes that measure 2 centimeters on each edge. What is the largest number of cubes that he can pack into a box 8 centimeters wide, 6 centimeters long, and 6 centimeters high? |
| http://www.tea.state.tx.us/student.assessment/resources/online/exit99/math/p27no19.gif |